

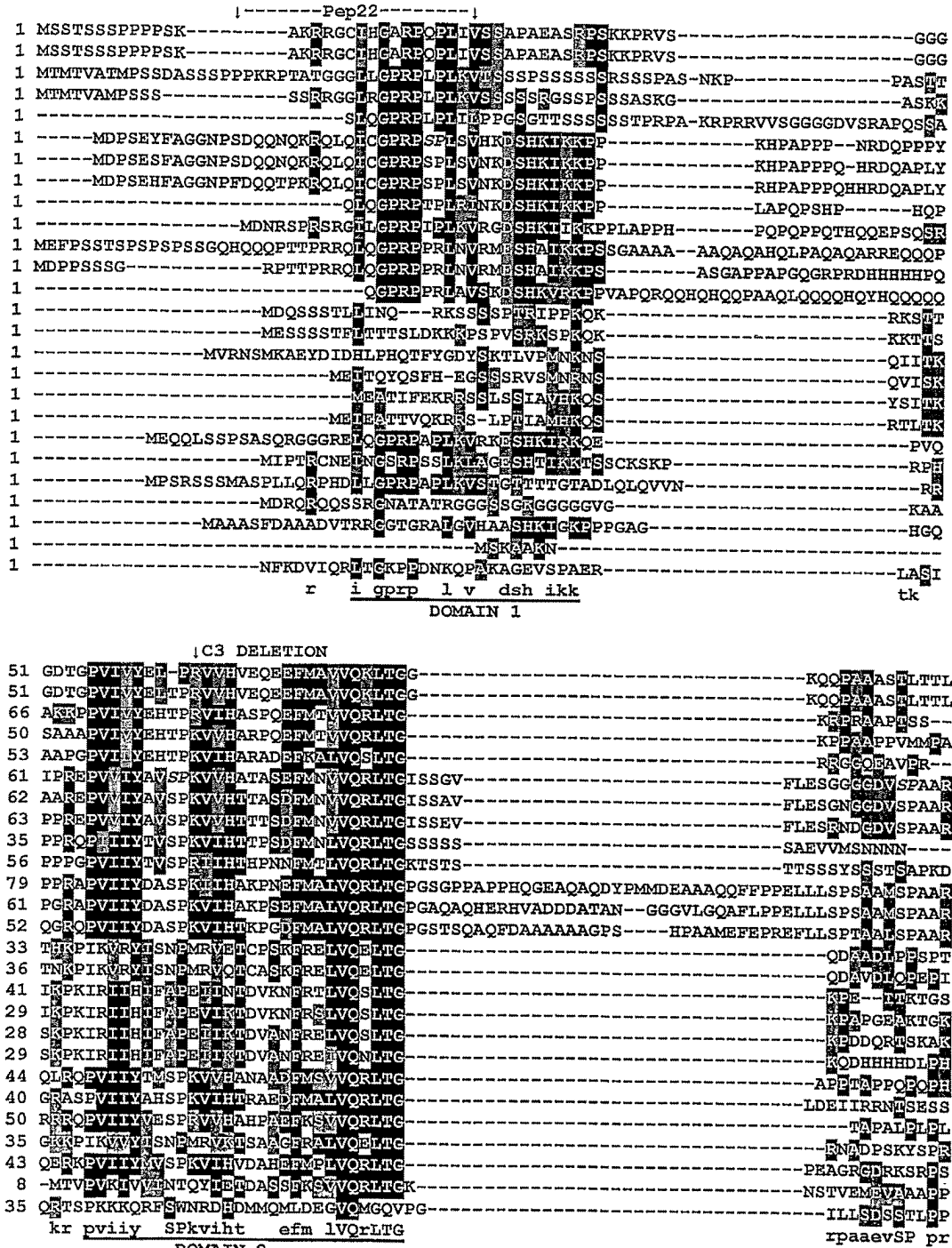
Inventor: ANDREASSON et al.
Docket No.: 09663.0068USWO
Title: PLANT DISEASE RESISTANCE AND SAR REGULATOR PROTEIN
Attorney Name: Denise M. Kettelberger
Phone No.: 612.371.5268
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Figure 1 A.

| | | BD fusion | AD fusion | -His growth | -Leu growth | β -gal activity | -Ade-Trp growth |
|------|--------|-----------|-----------|-------------|-------------|-----------------------|-----------------|
| MPK4 | MKS1 | | | + | + | + | + |
| MKS1 | MPK4 | | | + | + | + | + |
| MKS1 | MPK3 | | | - | - | - | + |
| MKS1 | MPK5 | | | - | - | - | + |
| MKS1 | MPK6 | | | - | - | - | + |
| MKS1 | MPK17 | | | - | - | - | + |
| MKS1 | WRKY25 | | | + | + | + | + |
| MKS1 | WRKY33 | | | + | + | + | + |
| MKS1 | WRKY26 | | | - | - | - | + |
| MKS1 | WRKY29 | | | - | - | - | + |
| MPK4 | WRKY25 | | | - | - | - | + |
| MPK4 | WRKY33 | | | - | - | - | + |

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Figure 1B (1)



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Figure 1B (2)

1C2 DELETION

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97 PAADQVAGGDHAAAAAARADPLVLTG--QORQPPAPAPIDGDHPAAPPSPADA-----FLLSPSSFFFLSPTTMMHALQ
108 --LPSGTVSPATAAEEGGGDPILLITGQORQ--AAAPAPPTITILLPSSAMAAAG-----MLLSPG-FLLSPSTMMQAIQ
94 YDEPAMVEQGAACACAGGDPILLITGQORQ--AASAPPPAPVPSF--MAAG-----MLLSPG-FVFSPTNMQSIQ
95 -----PPASSQQTACDLVLTGHHQH--VPPPPP--LPSP--GGAAG-----FLLSPGSEFSPATMMQAIQ
113 LAATENASPRGCKE-----PAARDEIVEINTAMEEAEFGGYAPGILSPSPAI-----LPTASCTCFSPMYHQQGM
114 LAATENASPRGCKEPV-----MAAKDEIVEINTAMEEAEFGGYAPGILSPSPAM-----LPTASCTCFSPMYHQQGM
115 LAATENASPRGCKE-----PVESSTAMEEAEFGCYVPGILSPSPAM-----LPTVPAGCTCFSPMFLHCGT
83 -----TTHVDFFNNGCGGGMVSPARYATHEKAM-----SPMGKKHVLLSEVNNIIS
108 ASTMVDTSFGLISPAERFAVTEKANTSNELCTFVGGECTMDQYYHYHHHHHHHQQ-----QQHONQCFERESFHHAGT
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139 LATHERSVRPVP-----APAPADPYAADG-----HPRGCAAPREAPR--HPVPAAVLAAAGRRVGPVLAABAL
128 LATHERSVRPLPHHAPAAVPPYFGATNDCEFFLPGSADMDSSAALGPPACRPGILSPAALPPAATCTGTFSPMPFDPSC
76 TF-----TAVDLHRPCESEMNEP-----LDGEVGEYYSFDEEVFNAP--QM-----SACLSGCFSSG
79 YS-----PSSDDHNLSPPAENLAPRVLHQEPFGERDSDCYEPLNAEDMFLPDQM-----SACFSGCFSSNG
82 KK-----KITNTNFPAPPLPQDSGQEHATAELDNRIIC--SHVKEEWGS-----SSNTNTYDQDFGIDLD
72 KR-----AKSRITTPQEPVCDHQPVRNLSCTFTGLLANGGNHGVKEEWGSGDOS-----TSNTNTYDLEGHIQDV
71 PR--RDMHRLHRQVQDMINTEKLREPEHCDQEFCLNAEETSMITWNNNGAGESS-----GGFLNGLDGFEFGIQEL
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1C1 DELETION

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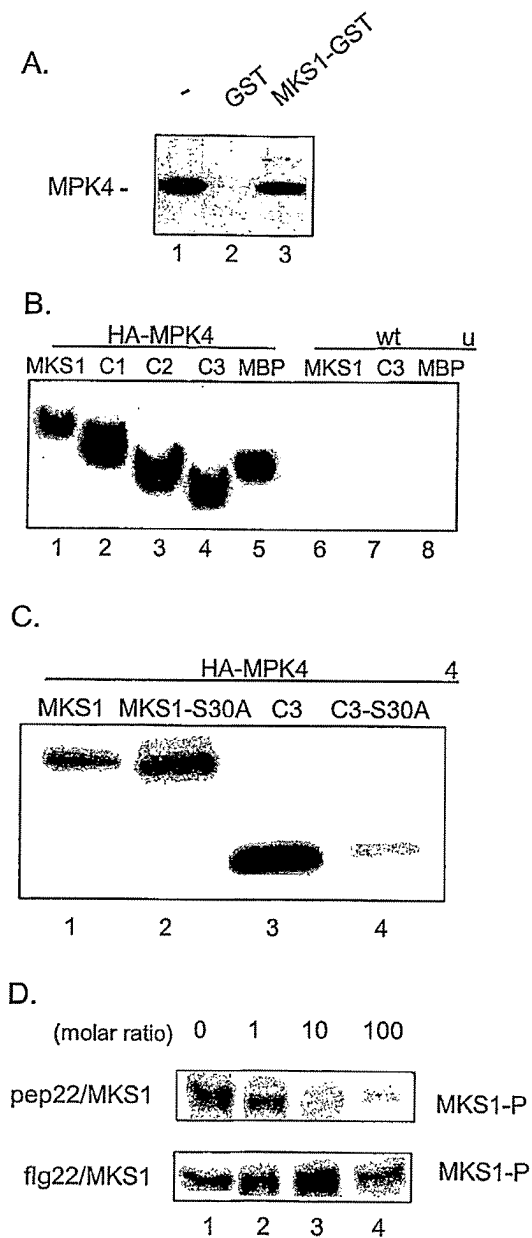
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182 MF-----SPG--LFSPAGLMSPPG--FA-----SLVASPTFADLFSHIWG-----g
175 FS-----PALPPGLFSPAGLMSPPGYAS-----LASPNFADFFSHIWDP-----h
129 DV-----E-----i
180 LSPGFNSLPSVSPDFFSTIGPTDPQGFSSFFNDFNSILQSSPSKIQSPSSMDLFNNFFDS-----j
231 ISWLNELSPILRAASAGAASSSGGGSGGNTSNGGAARPPPSYYADFPVPSRHLATPTVPSPATCAELFSLNPLD-----k
199 RPQORQLAQRAQPHPPGSHVHGQRSAPLAHAHGPTGGSRP-----l
208 LSWLSELSPFLPSAGTRAAAAGLLDQAPFAPSRRSLLSTPTMPS--PATFSVLEFFSSPNFPDL-----m
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139 -----FYNVNDFGSIDSM-----o
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141 G-----EFPYLPFTIDPAVASSSHLGNVFAEPHYA-----s
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-----u
165 SSNTTAVVSSSTNTSKNYE-----v
148 GYDDDDDDIFRSQLLDTSYSVFSPTLLYDHPHKS-----w
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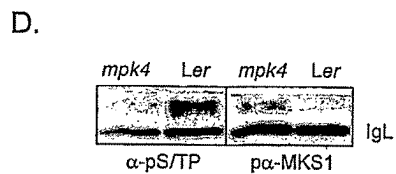
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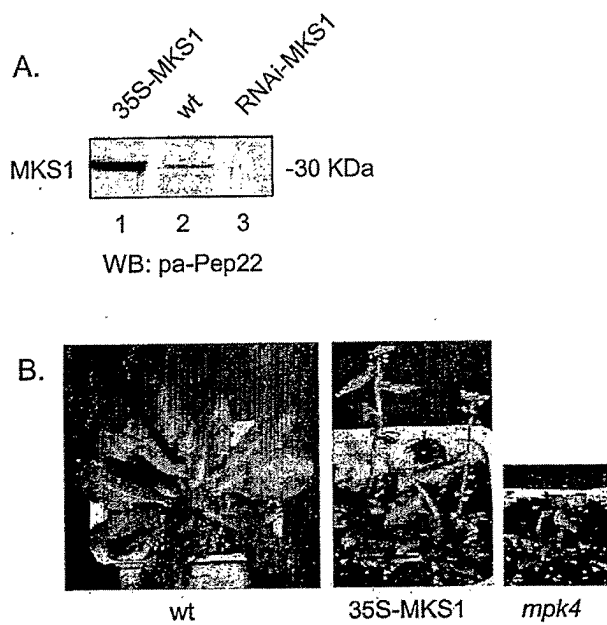
Figure 2.





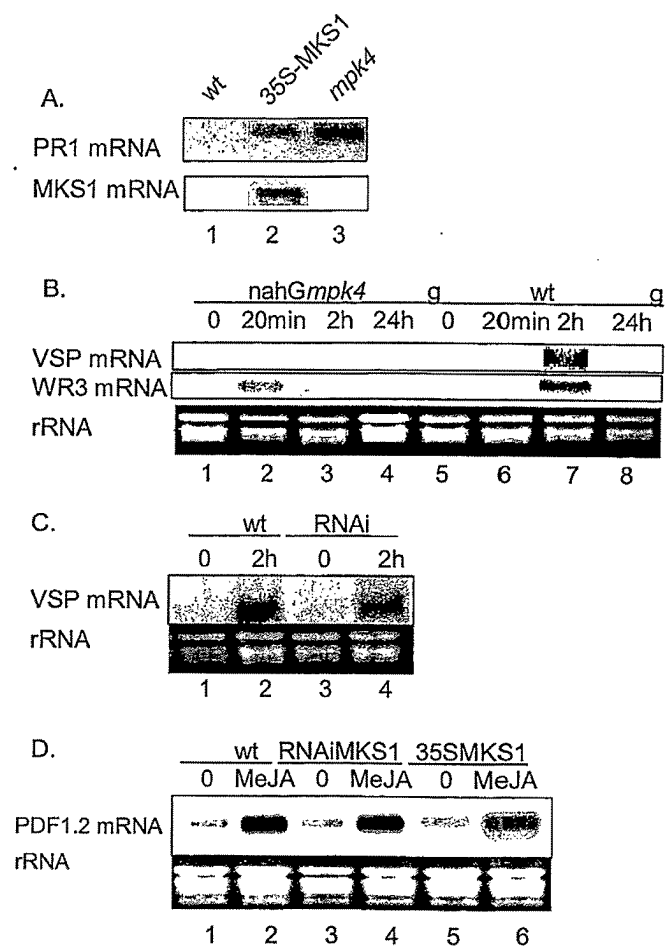
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Figure 4.



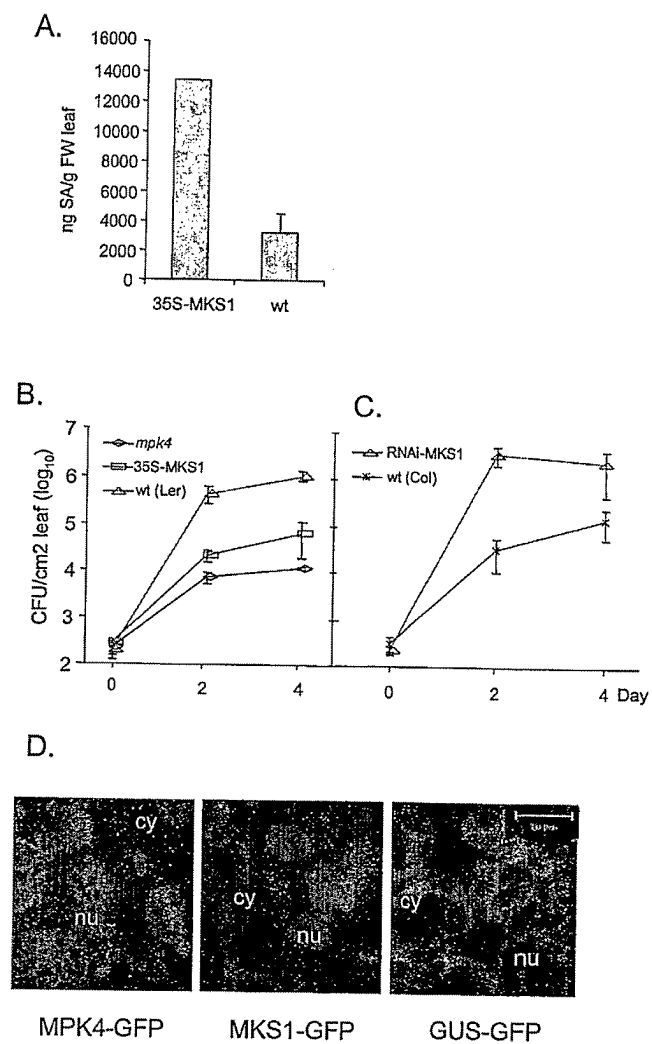
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Figure 5.



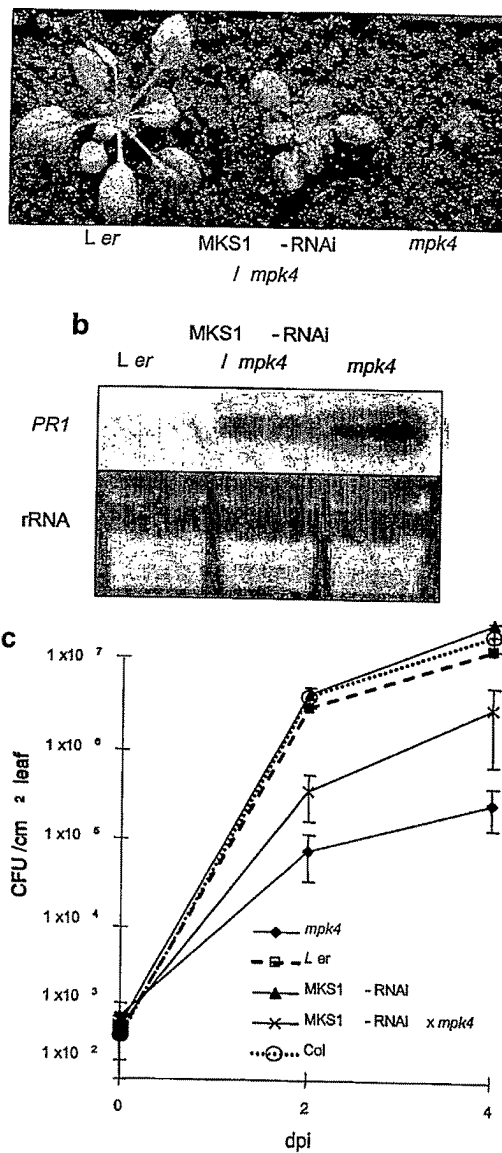
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Figure 6.



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Figure 7



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Figure 8.

